Overview

Course Code  WBT-3945-0
Course Length  16 Hours

In this course, you will learn advanced functions, options, and design methodologies of Creo Elements/Direct 18.1 Modeling, in addition to advanced three-dimensional modification functions and options. You will learn about advanced freeform functions as well as how to further manage assemblies with configurations, and clash analysis. Finally, you will learn about the 3-D Documentation module and the Machining module.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

• Understand and use the advanced options in modification commands
• Understand and use faceset features and patterns
• Create freeform parts using Loft, Sweep, and Helix
• Create and manipulate configurations
• Understand and use Clash Analysis
• Understand the concept of Versioning
• Utilize 3D Documentation
• Utilize the Machining Module
Prerequisites

• Must be able to interpret engineering drawings, and have an understanding of drafting concepts
• Must have at least two months of current experience with Creo Elements/Direct Modeling
• Prior use of another 3-D CAD system is helpful, but not required

Audience

• This course is intended for designers, mechanical engineers, industrial designers, illustrators, and tooling designers. People in related roles will also benefit from taking this course.
Table of Contents

<table>
<thead>
<tr>
<th>Module</th>
<th>1</th>
<th>Advanced Modification Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module</td>
<td>2</td>
<td>Freeform Modeling Operations</td>
</tr>
<tr>
<td>Module</td>
<td>3</td>
<td>Advanced Parts and Assembly Operations</td>
</tr>
<tr>
<td>Module</td>
<td>4</td>
<td>3D Documentation with Creo Elements/Direct Modeling</td>
</tr>
<tr>
<td>Module</td>
<td>5</td>
<td>Machining Module with Creo Elements/Direct Modeling</td>
</tr>
</tbody>
</table>